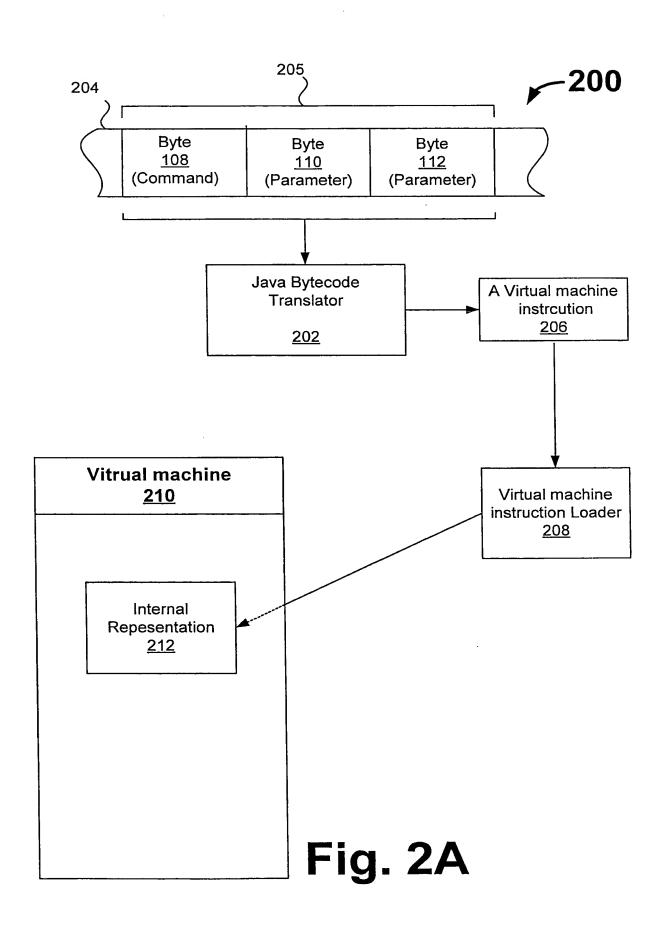


Fig. 1



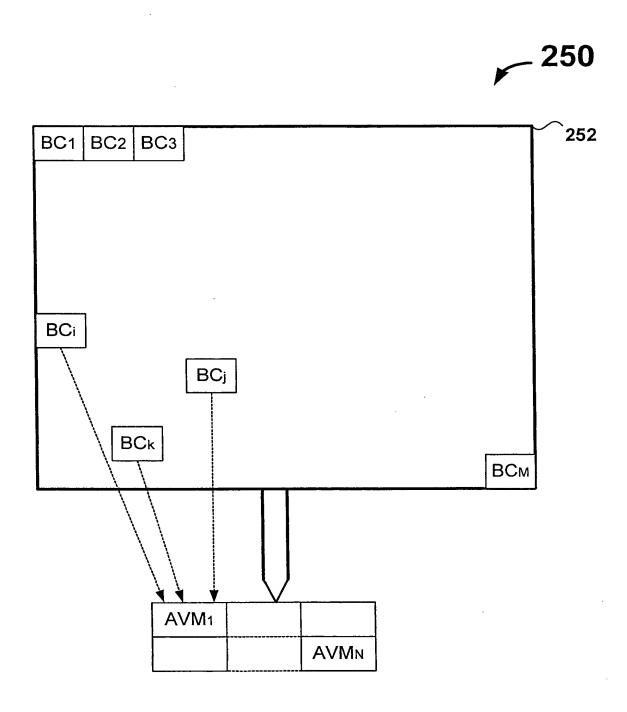


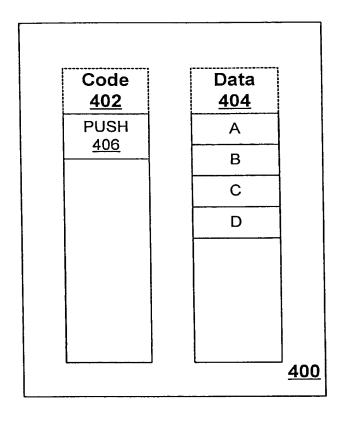
Fig. 2B

300

Virtual Machine command A
<u>306</u>
Virtual Machine command B
<u>308</u>
Virtual Machine command C
<u>310</u>
<u>302</u>

Fig. 3

400



PUSH
fconst_0
fconst_1
fconst_2
sipush
ldc
ldc_w

Fig. 4B

Fig. 4A

Code <u>402</u>	Data <u>404</u>	
PUSHL	Α	
412	В	
	С	
	D	
	E	
	F	
	G	
	Н	

OP_PUSHL lconst_0
lconst_1
dconst_0
dconst_1
ldc2_w

Fig. 4C

Fig. 4D

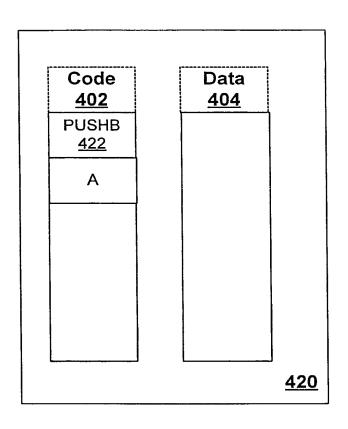
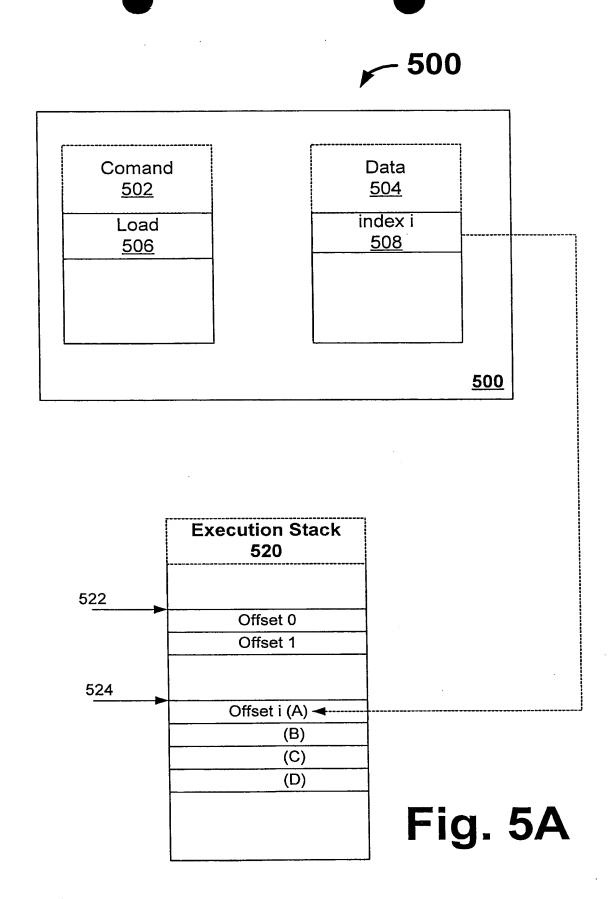


Fig. 4E

PUSHB
aconst_null
iconst m1
iconst 0
iconst 1
iconst 2
iconst 3
iconst 4
iconst_5
bipush

Fig. 4F



LOAD
iload
fload
aload
iload_0
iload_1
iload_2
iload_3
fload_1
fload_2
fload_3
aload_0
aload_1
aload_2
aload_3

LOADL
lload
dload
lload_0
lload_1
lload_2
lload_3
fload_0
dload_0
dload_1
dload_2
dload_3

Fig. 5B

Fig. 5C

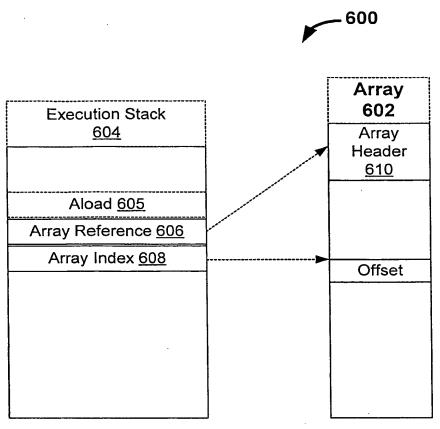


Fig. 6A

ALOAD
iaload
laload
faload
daload
aaload
baload
caload
saload

Fig. 6B

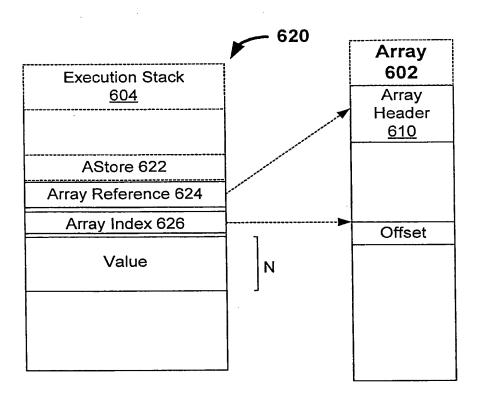


Fig. 6C

ASTORE iastore
fastore
aastore
bastore
castore
sastore

Fig. 6 D

ASTOREL lastore dastore

Fig. 6 E

lcmp	OP_LSUB, OP_JMPEQ
fcmpl	OP_FSUB, OP_JMPLE
fcmpg	OP_FSUB, OP_JMPGE
dcmpl	OP_DCMP, OP_JMPLE
dcmpg	OP_DCMP, OP_JMPGE

Fig. 6F

if_icmpeq	OP_ISUB, OP_JMPEQ
if_icmpne	OP_ISUB, OP_JMPNE
if_icmplt	OP_ISUB, OP_JMPLT
if_icmpge	OP_ISUB, OP_JMPGE
if_icmpgt	OP_ISUB, OP_JMPGT
if_icmple	OP_ISUB, OP_JMPLE
if_acmpeq	OP_ISUB, OP_JMPEQ
if_acmpne	OP_ISUB, OP_JMPNE

Fig. 6H

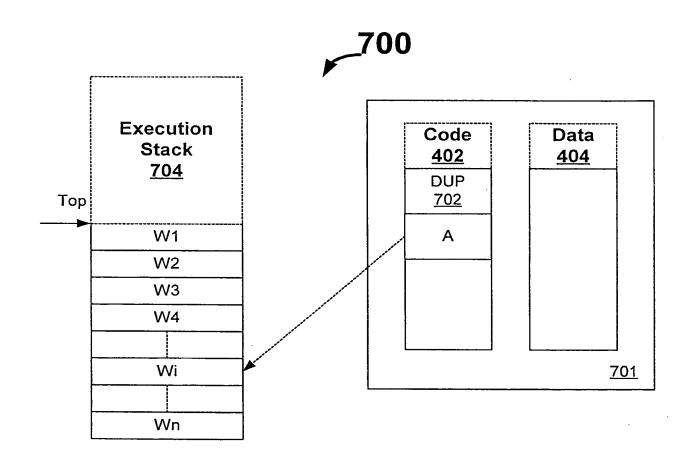


Fig. 7A

DUP	
Dup	
Dup_x1	ĺ
Dup_x2	

Fig. 7B

DUPL
Dup2
Dup2_x1
Dup2_x2

Fig. 7C

RETURN

Ireturn

Freturn Areturn

Multianewarray

Anewarray

Newarray

NEW

New

Fig. 9

LRETURN Lreturn

Dreturn

Fig. 8B Fig. 8A